

KIRI CARINI

Geospatial Communicator

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ABOUT ME

The way to change the world is to change the way people perceive the world. The ability of GIS to change peoples' perceptions is extremely powerful. My interests lie at the intersection of geospatial literacy, technology and the application of that knowledge to solve— not just study—the complex challenges society faces today.

SKILLS

Software & Tools

QGIS***

Git/GitHub**

Python*

R*

Google Colab Notebooks*

PostGIS/PostgreSQL*

GeoServer*

GDAL/OGR*

Blender*

Leaflet*

Adobe Illustrator**

ArcGIS***

Camtasia**

Drupal**

**learning*

***functional*

****proficient*

Professional

Public Speaking/Teaching

Program & Project Management

Grants Administration

Technical Writing

Workshop Development

Social Media Management

Domain Expertise

Urban Planning & Land Use

Hazard Mitigation

Geologic Hazards

Cultural & Historic Preservation

Teaching & Pedagogy

SELECT EXPERIENCE

Geospatial Specialist, Research Engagement Department

Graduate Assistant (Aug 2018 – July 2019)

University of Arizona Libraries | Aug 2018 – Present

- **Outreach.** Organize GIS Day activities. Facilitate workshops & seminars hosted by the Library. Bid selected to host OpenStreetMap US 2022 at UArizona, and served on the planning committee. Organizing team for annual Data Visualization Challenge.
- **Workshops & Learning.** Drop-in hours, guest lectures, library-based workshops on using GIS tools and working with data, data storytelling. Co-create & deliver Data Visualization Roadshow. Develop new website content on geospatial related resources and online instructional guides. Initiated a Maptime Tucson chapter.
- **Special Projects.** Support the implementation of maps & data into Digital Borderlands funded projects through consultation, support & bespoke training. Develop curriculum for high school summer GIS camp as part of the College of Education Upward Bound program.
- **Faculty Support.** 1:1 consultations related to integration of geospatial data & technologies into the classroom, GIS data, tools & analyses.
- **Supervisory.** Hire and manage 1 graduate student per year to assist with consultations, data requests, web resources and workshop development. Emphasize professionalization of students for future employment and learning new technical skills.
- **Data management.** Georeference of historic Forest Service maps, QA/QC of geologic data from Mexico, assembly of statewide voter precinct data, and ingest of orthoimagery/DTMs, including metadata development. Migrate 6 TB of data from Postgres database to CyVerse cyberinfrastructure.
- **Spatial Data Infrastructure.** Managed data repository & discovery application via Postgres database and open-source stack (GeoServer, Solr, iRODS). Currently leading a Geoportal Migration Project providing long-term sustainability through cross-campus partnerships.

EDUCATION

M.S., Geographic Information Systems Technology
University of Arizona

B.S., Public Policy, Management & Planning
University of Southern California

AWARDS

University Award for Excellence – Individual
University of Arizona

Best Media & Public Relations Campaign
Maryland Tourism Council

Overall Award in Excellence
Western States Seismic Policy Council

CERTIFICATIONS

Project Management Professional (PMP)
Project Management Institute
#1625631 (exp. 2022)

Instructor, Data Carpentry & Library Carpentry
The Carpentries
2019

REFERENCES

Dr. Blake Joyce
Manager – Data Science
Research Computing
University of Alabama - Birmingham
P: 520-621-6181
E: bjoyce@uab.edu

Dr. Tyson Swetnam
Research Assistant Professor in Geoinformatics
BIO5 Institute
P: 520-621-9104
E: tswetnam@arizona.edu

Maggie Cawley
Executive Director
OpenStreetMap US
P: 804-4960566
E: maggie@openstreetmap.us

SELECT EXPERIENCE CONTINUED

Science Communicator (remote)
University of Maryland Center for Environmental Science, Integration & Application Network | 2014 – 2020

- Conduct geospatial analysis such as a **flood risk analysis** of the entire Mississippi River watershed for the America's Watershed Initiative.
- **Cartography and design** for print and web-based environmental science communication projects such as Bhitarkanika Report Card Newsletter for the Government of India.
- **Mapping lessons** for MEES 708 Science Visualization.
- **Manage social media** including editorial calendar, developing toolkits for project releases, & design of social media graphics. Provide social media services to the International Project Office of Future Earth Coasts and the Chesapeake Monitoring Cooperative.

Flood Recovery Planner
Boulder County Transportation | 2015-2017

- Navigated **\$120 million in disaster recovery projects** through the FEMA grants process for DR-4145.
- **Analyzed policy** and responded to eligibility questions.
- Developed **linear referencing** in ArcGIS using Python scripts to evaluate locations of road reconstruction work.

Program Administrator
Dorchester County Tourism | 2013-2015

- Oversaw approximately **\$1 million in tourism and cultural heritage grants** for the Heart of Chesapeake Country State Heritage Area.
- **Applied for grants** and worked on project development plans for the Harriet Tubman National Scenic Byway and Chesapeake Country Scenic Byway.
- Created **ArcGIS Storymap** for IRONMAN Maryland triathlon event that highlighted race route and points of interest.

Program Coordinator
Oregon Office of Emergency Management | 2009-2013

- Managed **\$30 million in capital construction grants** for the Seismic Grant Program (hazard mitigation).
- Traveled around the state hosting **outreach workshops** and regularly reported to legislature.
- **Led a cross-departmental workgroup** to enhance geospatial capabilities in the office and the Emergency Coordination Center.

AFFILIATIONS

- Project Management Institute
 - Women in GIS
 - OpenStreetMap US
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